

**Notice of Allowability**

Application No.

10/729,647

Applicant(s)

SWOBODA ET AL.

Examiner

Art Unit

Yolanda L. Wilson

2113

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment received on 10/03/06.
2. ☒ The allowed claim(s) is/are 1-11.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Holloway on December 13, 2006.

The application has been amended as follows:

#### ***Claims***

2. Claim 1. 'the periodic signals resulting in periodic sync markers in the timing trace streams and in the program counter trace stream.' should be 'the periodic signals resulting in periodic sync markers in the timing trace streams and in the program counter trace stream,'

3. Claim 3. 'the host processing unit reconstructing the the program code execution of the processing unit from the trace streams' should be 'the host processing unit reconstructing the program code execution of the processing unit from the trace streams'

4. Claim 5. 'The method as recited in claim 4 further including:' should be 'The method as recited in claim 4 further comprising:'

5. Claim 7. 'a FIFO unit, the storage unit transferring the stored signals to the FIFO unit in the form of a program code flush sync marker' should be 'a FIFO unit, the

storage unit transferring the stored signals to the FIFO unit in the form of an interrupt service routine code flush sync marker'

6. Claim 8. 'the interrupt service routine code flush marker' should be 'the interrupt service routine code flush sync marker'

7. Claim 10. 'the interrupt service routine flush signal' should be 'the interrupt service routine code flush signal'

### ***Reasons for Allowance***

8. The following is an examiner's statement of reasons for allowance: The primary reason for the allowance of claims 1-3 is the inclusion of the limitations: 'wherein the program counter trace apparatus is responsive to an interrupt service routine code flush signal, the program counter trace apparatus generating a sync marker signal group identifying the occurrence of the interrupt service routine code flush signal and relating the interrupt service routine code flush signal to the timing trace stream and to the program code execution'. The primary reason for the allowance of claims 4-5 is the inclusion of the following limitations: 'in the program counter trace stream, including an interrupt service routine code flush sync marker signal group indicating an occurrence of an interrupt service routine code flush signal and relating the occurrence to the data trace stream and to the timing trace stream'.

The primary reason for the allowance of claim 6 is the inclusion of the limitations 'an indicia of the relationship of the occurrence of the interrupt service routine code flush signal to the target processor clock; and an indicia of the relationship of the occurrence of the interrupt service routine code flush signal to the target processor program

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execution'. The primary reason for the allowance of claims 7-11 is the inclusion of the limitations 'a decoder unit responsive to an interrupt service routine code flush signal for storing an indicia of an interrupt service routine code flush signal in the storage unit, the decoder unit generating a control signal'; and a FIFO unit, the storage unit transferring the stored signals to the FIFO unit in the form of a interrupt service routine code flush sync marker'.

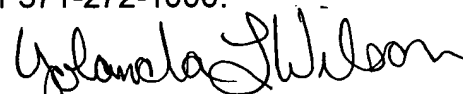
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yolanda L. Wilson whose telephone number is (571) 272-3653. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (571) 272-3645. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



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